



PFAS Contamination in the Marinette Peshtigo Area

Listening Session 6

February 19, 2020



Welcome and Agenda

- 1) What To Expect From This Listening Session
- 2) Overview – PFAS Chemicals
- 3) Addressing PFAS Contamination in Marinette Peshtigo Areas
 - 1) Who's Doing What
 - 2) Status Of Investigation And Clean-Up
- 4) Update on Statewide PFAS Efforts
- 5) Update from Department of Health Services
- 6) Upcoming Important Dates
- 7) Listening Session

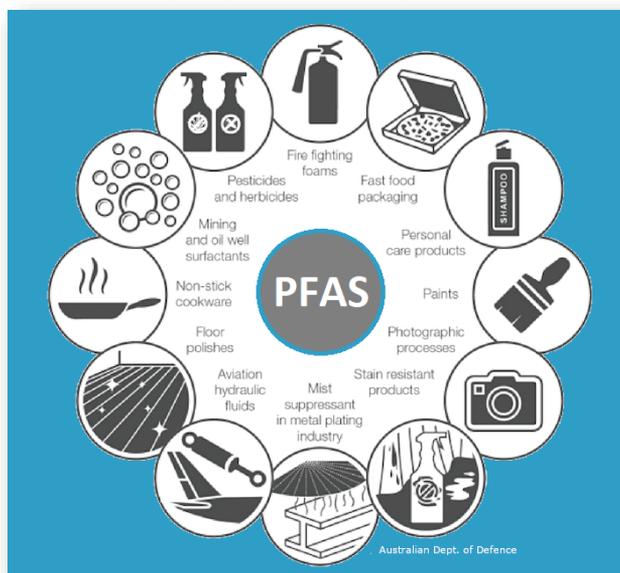
What is a Listening Session?

- Committed to open and ongoing communication – ask questions, give feedback, let us know what topics you want to hear about:
 - Call (888-626-3244) or
 - email DNRJCIPFAS@wisconsin.gov
- Also – check out our FAQs and latest investigation information
 - <https://dnr.wi.gov/topic/Contaminants/Marinette.html>



What are PFAS?

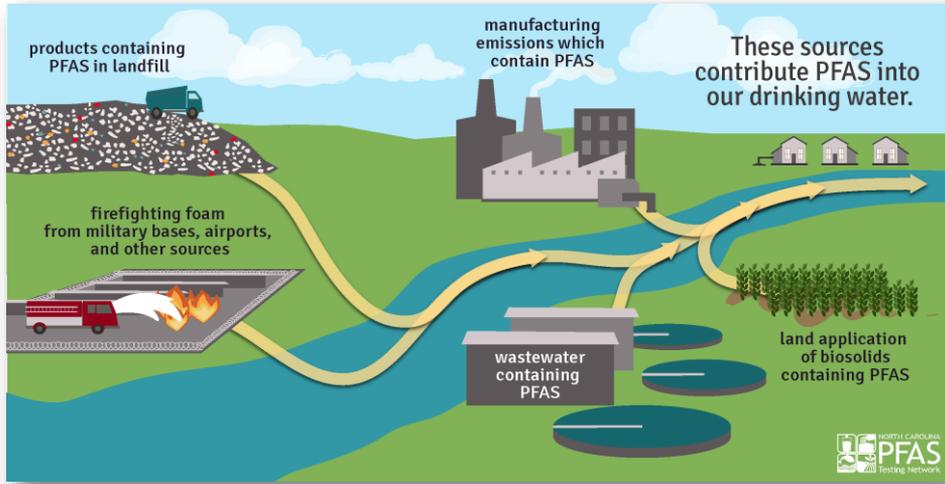
- PFAS = Per- and polyfluoroalkyl substances (PFAS)



PFAS in the Environment

Four major sources :

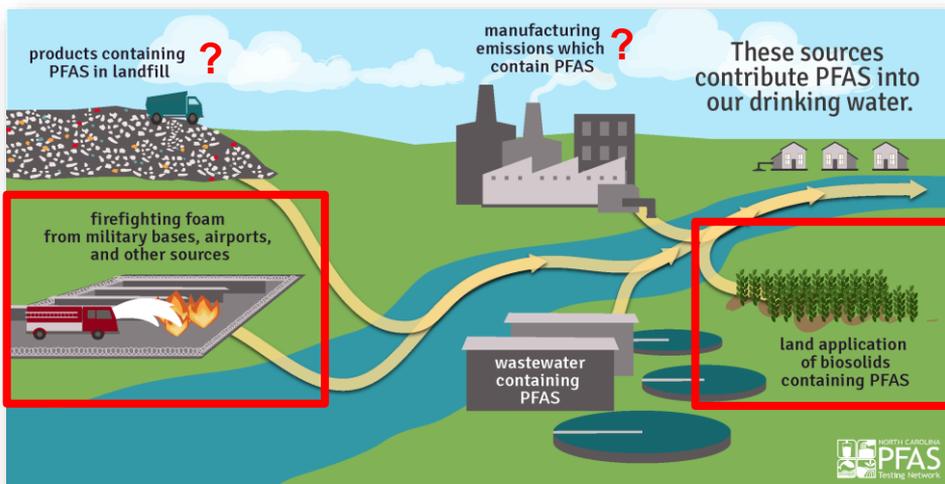
- 1) fire training/fire response sites,
- 2) industrial sites,
- 3) landfills, and
- 4) WWTP/biosolids



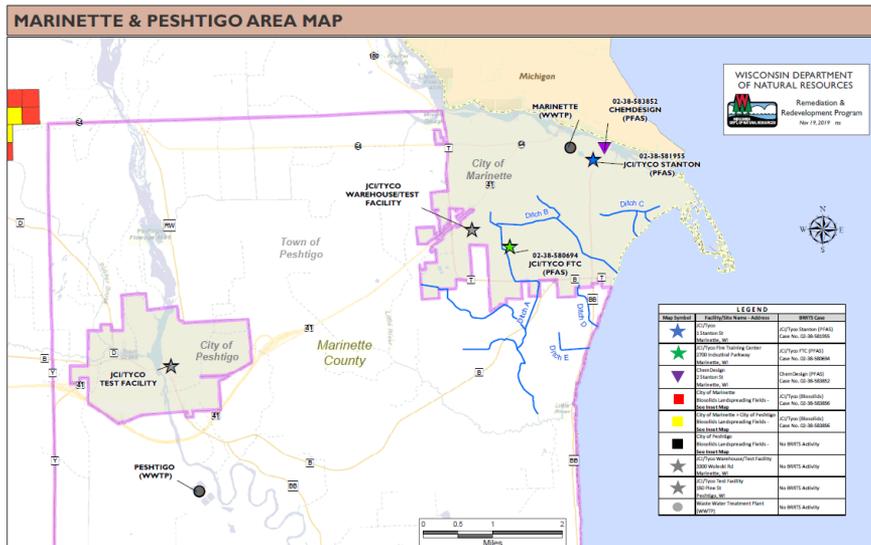
PFAS in the Environment

Four major sources :

- 1) fire training/fire response sites,
- 2) industrial sites,
- 3) landfills, and
- 4) WWTP/biosolids



- JCI/Tyco and ChemDesign must investigate and clean-up PFAS contamination in accordance with state law

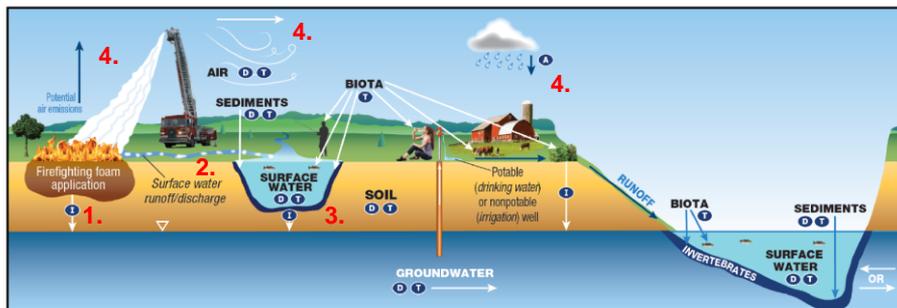


Open Site Investigations

1. JCI/Tyco Fire Technology Center – Marinette
2. JCI/Tyco Stanton – Marinette
3. ChemDesign – Marinette
4. City of Marinette Biosolids Landspreading Fields (JCI/Tyco RP) – several potentially impacted communities

Information and Testing Requested

5. City of Peshtigo Biosolids Landspreading Fields (PRP letter and request for testing)
6. JCI/Tyco Warehouse/Test Facility – Marinette (PRP letter issued)
7. JCI/Tyco Test Facility – Peshtigo (PRP letter issued)



KEY A Atmospheric Deposition B Diffusion/Dispersion/Advection C Infiltration D Transformation of precursors (abiotic/biotic)

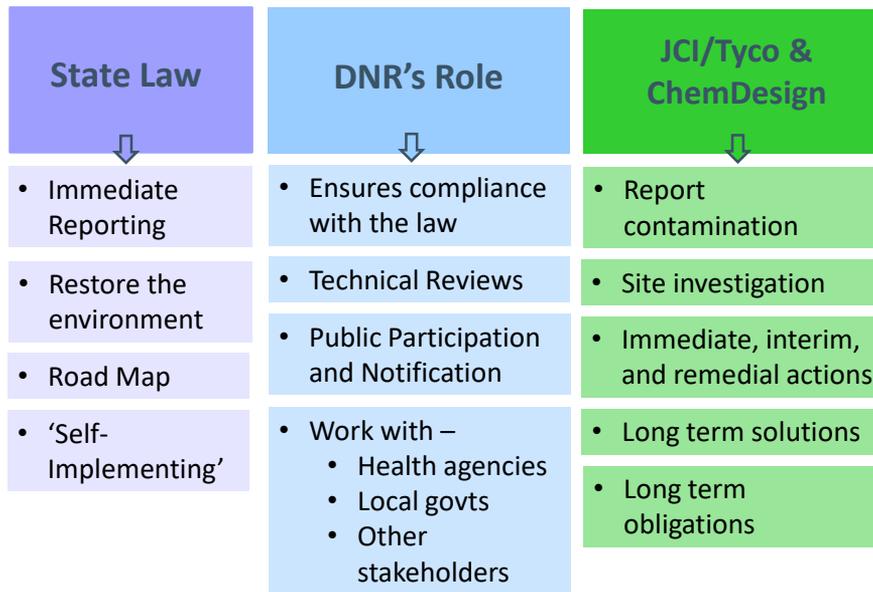
Figure 1. Conceptual site model for fire training areas.

(Source: Adapted from figure by L. Trozzolo, TRC, used with permission)

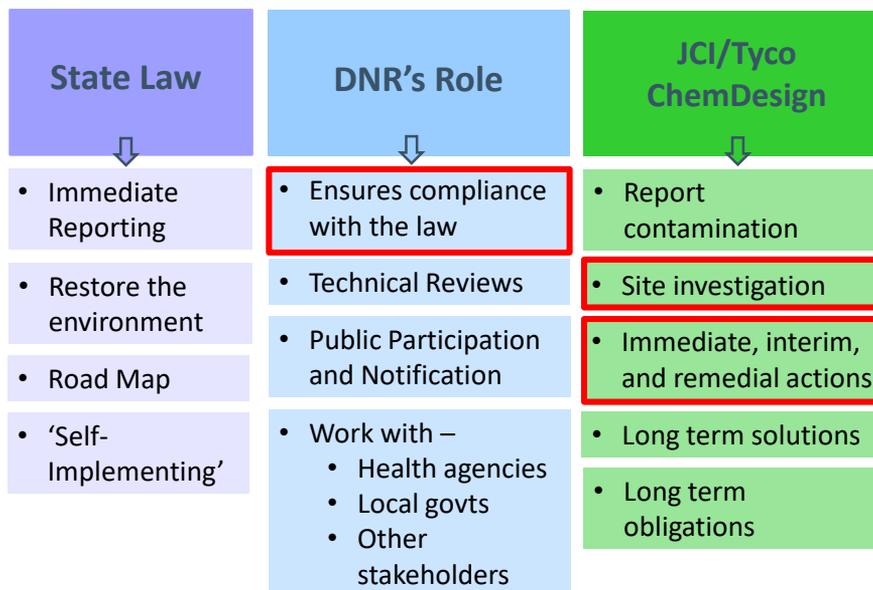
Sources of PFAS to the environment - Fire Training Areas

- | | |
|----------------------|------------------------------------|
| 1. Groundwater | 4. Air |
| 2. Stormwater runoff | 5. Biosolids |
| 3. Surface water | 6. Others (construction and waste) |

Roles and Responsibilities



DNR- JCI Meetings Jan/Feb 2020





DNR JCI Summit Meeting January 23rd

- Establish framework for submittals moving forward – *Established expectations for future reporting and analysis*
- JCI/Tyco presents information on site investigation including work to evaluate groundwater transport, surface water transport, and air transport mechanisms. *Data is preliminary – no report or analysis provided to date*
- Better platform for communication moving forward – *DNR and JCI/Tyco to meet quarterly to discuss and direct project*
- Action Items
 - Deer Study
 - Biosolids
 - Stanton St
 - FTC



Summit Meeting Outcomes

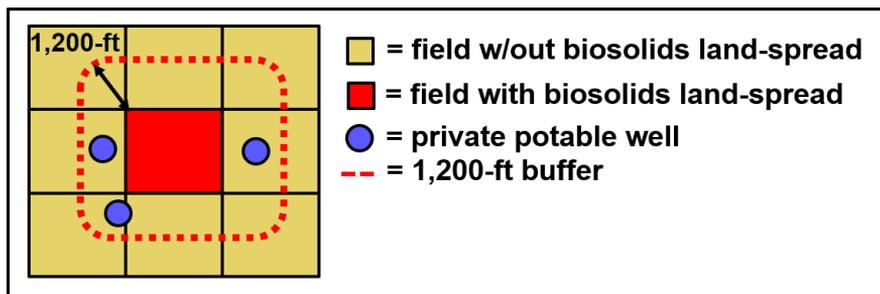
- Deer Study
 - Access granted by JCI/Tyco to test deer at FTC
 - 20 deer to be culled during remaining winter months and tissue tested for PFAS
 - Results anticipated summer 2020
 - May or may not result in a deer consumption advisory



Summit Meeting Outcomes

Biosolids (from City of Marinette WWTP)

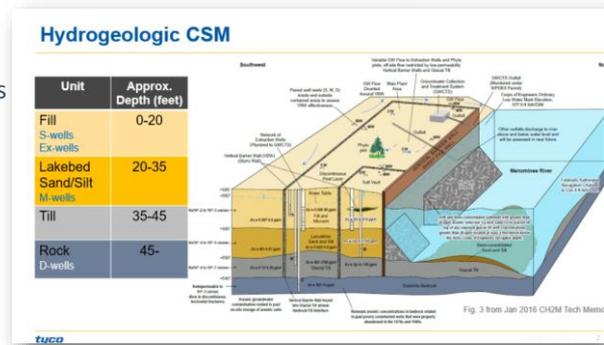
- Letter issued by DNR agreeing that JCI/Tyco can focus on private potable well sampling for remaining winter months
- All potable wells within 1200 ft of 61 fields will be contacted to have their well sampled
- List of properties provided to DNR
- DNR and JCI/Tyco will meet in May to discuss sample results



Summit Meeting Outcomes

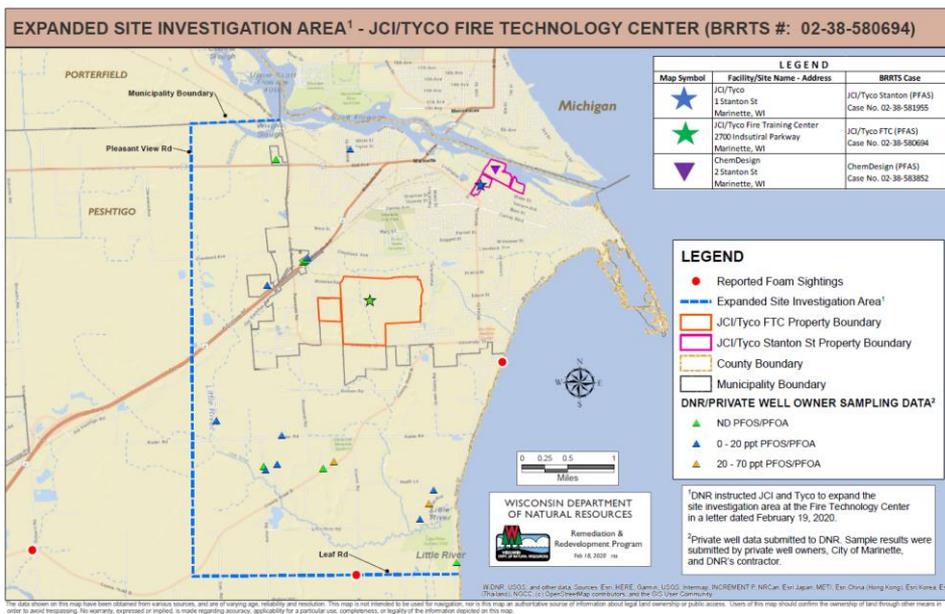
Stanton St

- DNR received a report from JCI/Tyco reporting data collected at monitoring wells on property
- **Data in the report:** PFAS in groundwater from outside the barrier wall
 - Shallow wells (0 - 20ft): As high as 1,420 ppt PFOS/PFOA
 - Bedrock wells (45+ ft): As high as 1,300 ppt PFOS/PFOA
- Report does not provide any information about the cause and significance of the contamination.
- **Underground barrier wall:**
 - Constructed to address historical arsenic contamination
 - Diverts groundwater around the facility



Fire Technology Center

- DNR requires JCI/Tyco expand the study area, including private potable well testing. (see map next page)
- To Date:
 - No site investigation report for site investigation data collected to date
 - No 'proof' of the hypotheses that were presented
 - Surface water and air information is preliminary
- Map available on website



WISCONSIN DNR Department of Natural Resources Private Well Sampling – Available Resources

If your residence is outside the study area:

- Consider drinking bottled water (purchased at the store) - minimize potential exposure
- Consider sampling your own well at your expense.
 - Lab resource linked on DNR's PFAS webpage
 - Email inbox for more resources

The screenshot shows the DNR website navigation bar with links for Business, Licenses & Regulations, Recreation, Env. Protection, Contact, and Join DNR. A search bar is also present. The main content area is titled "PFAS contamination in the Marinette and Peshtigo area". Below the title, there are four buttons: "FAQ", "Subscribe", "Find", and "Report". The "Find" button is highlighted with a red box. To the right of the buttons, there is a sidebar with sections for "Learn", "Join", "Read", and "Find", each with a brief description. At the bottom of the sidebar, there is a "DNR database" section with two links.

PFAS contamination in the Marinette and Peshtigo area

PFAS contamination has been detected in the Marinette and Peshtigo area in soil, sediment, groundwater, surface water, private drinking water wells and biosolids.

FAQ for PFAS contamination in the Marinette and Peshtigo area.

Subscribe to Marinette and Peshtigo area PFAS contamination updates.

Find a certified lab that can test drinking water [PDF exit DNR].

Report a PFAS foam event suspected to be occurring in the Marinette and/or Peshtigo area.

Under the oversight of the DNR, Johnson Controls, Inc. – Tyco Fire Products (JCI/Tyco) began conducting a site investigation for PFAS contamination in Fall 2017. This investigation resulted in additional sites being identified where investigation work must be conducted. Additional parties responsible for PFAS contamination have also been identified. It is possible that more sites and responsible parties may be identified in the future necessitating additional investigation. This page will be updated as new information becomes available.

Emerging contaminants

Learn
about PFAS contamination.

Join
or read about the PFAS Technical Advisory Group.

Read
about water quality PFAS initiatives and study results.

Find
a certified lab that can test drinking water [PDF exit DNR].

DNR database

▶ To view information on sites where PFAS contamination has been reported to the DNR, go to the [Remediation and Redevelopment Program database \(PDF 15 on the Web\)](#).

▶ To find sites with PFAS contamination in the database, go to the [Table](#).

WISCONSIN DNR Department of Natural Resources Private Well Sampling – Available Resources

Your Lab Report:

Limit of Detection (LOD): The smallest concentration of a contaminant that the laboratory equipment can confidently detect.

Limit of Quantification (LOQ): The smallest concentration of a contaminant that the laboratory equipment can confidently measure.

J Flagged results: Concentration falls between the LOD & LOQ. Lab can confidently say the contaminant is present, but can't confidently measure the amount. The result reported is the lab's best estimate of the measurement.



**** LOD & LOQ May vary between labs due to differences in equipment.**



WI Dept of Health Services

- Public Health Assessment & Open House (Spring)
- PFAS Information Session for Clinicians (Spring)
- Send health-related questions to:
DHSEnvHealth@dhs.Wisconsin.gov
- Health-related PFAS information:
www.dhs.Wisconsin.gov/chemicals/pfas.htm



Upcoming Important Dates

February 25, 26, 27 –

- 1) Invitation from JCI/Tyco to ‘impacted’ residents only

NOTE: DNR has not concurred with JCI/Tyco on the extent of the impacted area

March –

- 1) JCI/Tyco to begin sampling private wells in areas where biosolids were land-spread (city of Marinette WWTP)
- 2) JCI/Tyco to begin sampling private wells in expanded study areas (or DNR if JCI refuses)
- 3) AOC meeting for Menominee River (no listening session this month) **March 12th**



Upcoming Important Dates

March/April – Special Meeting

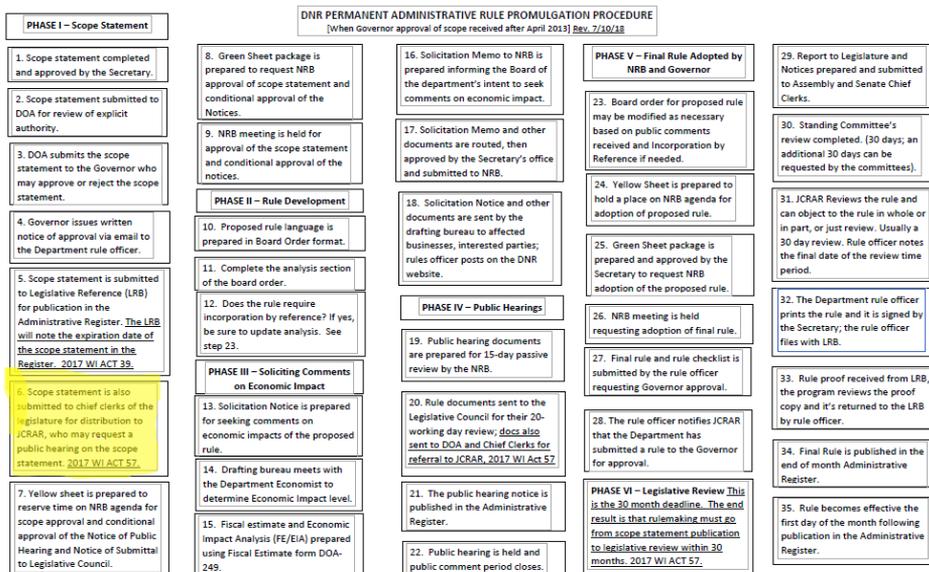
- Long Term Potable Water (RAOR)
- Date and Location TBD
- More info soon

April 7th –

1) Town of Peshtigo Referendum



Today's Rule Process





Future Listening Sessions

- **Every Other Month – Begin May 2020**
 - May, July, September, November
 - Third Wednesday
 - NWTC Campus – more info soon
 - Communicate via website, new releases, email subscription



Listening Session Format

- **Format:**
 - Open Q/A Session
- **Ground Rules:**
 - Purpose of Listening Sessions
 - 3-mins per person → everyone has the opportunity to voice concerns
 - Keep comments constructive
 - Attack the problem not the person